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Applicant(s): Rigoutsos et al.
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Title: Unsupervised Building and Exploitation of Composite Descriptors

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

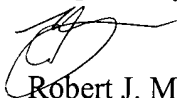
Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, Applicant's attorney wishes to bring to the attention of the Patent and Trademark Office the following document listed on the accompanying PTO Form 1449. A copy of the listed item is enclosed.

1. Attwood et al., "The PRINTS Protein Fingerprint Database in its Fifth Year," Nucleic Acids Res., 26(1):304-308, (1998).
2. Bailey et al., "The Value of Prior Knowledge in Discovering Motifs with MEME," In Proceedings of the Third International Conference on Intelligent Systems for Molecular Biology (ISMB '95), Menlo Park, California, AAAI Press, (1995).
3. Bairoch et al., "The PROSITE Database, its Status in 1997," Nucleic Acids Res., 25(1):217-221, (1997).
4. Bork et al., "Applying motif and Profile Searches," Methods Enzymol., 266:162-184, (1996).
5. Gao et al., "Motif Detection in Protein Sequences," In Proceedings of SPIRE'99, 63-72, (1999).
6. Grundy et al., "Meta-MEME: Motif-based Hidden Markov Models of Protein Families," Computer Applications in the Biological Sciences (CABIOS), 13:397-406, (1997).
7. Henikoff et al., "Blocks Database and its Applications," Methods Enzymol., 266:88-105, (1996).
8. Nevill-Manning et al., "Highly Specific Protein Sequence Motifs for Genome Analysis," Proc. Natl. Acad. Sci. USA, 95(11):5865-5871, (1998).
9. Ogiwara et al., "Construction of a Dictionary of Sequence Motifs that Characterize Groups of Related Proteins," Protein Eng., 5(6):479-488, (1992).

10. Rigoutsos et al., "Dictionary Building Via Unsupervised Hierarchical Motif Discovery In the Sequence Space Of Natural Proteins," *Proteins: Structure, Function and Genetics*, 37(2): 264-277, (1999).
11. Saqi et al., "Identification of Sequence Motifs from a Set of Proteins with Related function," *Protein Engineering*, 7(2):165-71, (1994).
12. Sonnhammer et al., "Pfam: A Comprehensive Database of Protein Domain Families Based on Seed Alignments," *Proteins*, 28(3):405-420, (1997).
13. Tatusov et al., "A Genomic Perspective on Protein Families," *Science*, 278(5338):631-637, (1997).

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, or as an admission that the information cited is considered to be material to patentability or as a representation that no other material information exists.

Respectfully submitted,



Date: March 12, 2002

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